

## Appendix D

### Field Collection Forms

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# SEDIMENT CORE COLLECTION FORM



## Sediment Core Collection Form

Page \_\_\_\_ of \_\_\_\_

**Project:** \_\_\_\_\_  
**Date:** \_\_\_\_\_  
**Weather:** \_\_\_\_\_  
**Logged By:** \_\_\_\_\_

**Location ID:** \_\_\_\_\_  
**Attempt No.:** \_\_\_\_\_  
**Core Type:** Intertidal   Subtidal   Shoaling  
**Field Staff:** \_\_\_\_\_

### Field Collection Coordinates:

Lat/Northing: \_\_\_\_\_

Long/Easting: \_\_\_\_\_

### A. Water Depth

DTM Depth Sounder: \_\_\_\_\_  
DTM Lead Line: \_\_\_\_\_

### B. Water Level Measurements

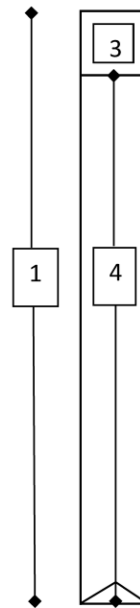
Time: \_\_\_\_\_  
Height: \_\_\_\_\_  
Source: \_\_\_\_\_

### C. Mudline Elevation (ft MLLW)

Recovery Measurements (prior to cuts)

### Core Collection Recovery Details:

1. Core Tube Length: \_\_\_\_\_
2. Penetration Depth: \_\_\_\_\_
3. Headspace Measurement: \_\_\_\_\_
4. Recovery Depth: \_\_\_\_\_
5. Recovery Percentage: \_\_\_\_\_
6. Core Accepted: Yes / No



Core Sections To Process:

A: \_\_\_\_\_  
B: \_\_\_\_\_  
C: \_\_\_\_\_  
D: \_\_\_\_\_

### Drive Notes:

### Shoe Description:

### Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

### Notes:

[illegible]

# SURFACE SEDIMENT COLLECTION FORM



## SURFACE SEDIMENT COLLECTION FORM

Project Name: \_\_\_\_\_ Project no.: \_\_\_\_\_

Date: \_\_\_\_\_ Weather: \_\_\_\_\_

Sampling Method: \_\_\_\_\_ Crew: \_\_\_\_\_

<b>GRAB DATA</b>		Location ID: _____		
Latitude/Northing(Y): _____				Longitude/Easting(X): _____
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<b>SAMPLE DATA</b>		Sample ID: _____		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: _____				
<b>Sediment type</b> cobble gravel sand (F M C) silt clay	<b>Sediment color</b> brown surface drab olive brown gray black	<b>Sediment odor</b> none H <sub>2</sub> S slight petroleum moderate other: strong		<b>Comments:</b>

<b>GRAB DATA</b>		Location ID: _____		
Latitude/Northing(Y): _____				Longitude/Easting(X): _____
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<b>SAMPLE DATA</b>		Sample ID: _____		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: _____				
<b>Sediment type</b> cobble gravel sand (F M C) silt clay	<b>Sediment color</b> brown surface drab olive brown gray black	<b>Sediment odor</b> none H <sub>2</sub> S slight petroleum moderate other: strong		<b>Comments:</b>

BANK SOIL COLLECTION FORM

Project Name/Number: \_\_\_\_\_

Date: \_\_\_\_\_

Sampling Method: \_\_\_\_\_

Bank ID: \_\_\_\_\_

Weather: \_\_\_\_\_

Crew: \_\_\_\_\_

Composite Sample Time: \_\_\_\_\_

Composite Sample ID: \_\_\_\_\_

Location ID:	Sample Time:	Sample Depth:
Location Description (coordinates or distances from landmarks; slope, elevation, proximity of three samples):		
Sample Description (i.e., including grain size, color, odor):		
Comments:		

Location ID:	Sample Time:	Sample Depth:
Location Description (coordinates or distances from landmarks; slope, elevation, proximity of three samples):		
Sample Description (i.e., including grain size, color, odor):		
Comments:		

Location ID:	Sample Time:	Sample Depth:
Location Description (coordinates or distances from landmarks; slope, elevation, proximity of three samples):		
Sample Description (i.e., including grain size, color, odor):		
Comments:		

**PROTOCOL MODIFICATION FORM**

Project Name and Number: \_\_\_\_\_

Material to be Sampled: \_\_\_\_\_

Measurement Parameter: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Standard Procedure for Field Collection & Laboratory Analysis (cite reference): \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Reason for Change in Field Procedure or Analysis Variation: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Variation from Field or Analytical Procedure: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Special Equipment, Materials or Personnel Required: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Initiator's Name: \_\_\_\_\_ Date: \_\_\_\_\_

Project Officer: \_\_\_\_\_ Date: \_\_\_\_\_

QA Officer: \_\_\_\_\_ Date: \_\_\_\_\_



## D-2 Geotechnical Field Forms

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Boring Location: _____										Boring _____ Date _____		Sheet _____ of _____	
Elevation: _____ Datum: _____										Job _____		Job No. _____	
Obs. Well Install. <input type="checkbox"/> Yes <input type="checkbox"/> No										Logged By _____		Weather _____	
										Drilled By _____		Drill Type/ Method _____	
										Sampling Method _____		Bottom of Boring _____ ATD Water Level Depth _____	

SIZE (%)			PID or other	DEPTH		SAMPLE		SAMPLE RECOVERY	Penetration Resistance	DESCRIPTION: Den., moist., color, minor, MAJOR CONSTITUENT, NON-SOIL SUBSTANCES: Odor, staining, sheen, scrag, slag, etc.	REMARKS: Drill action, drill and sample procedures, water conditions, heave, etc.	SUMMARY LOG (Water & Date)
G	S	F		From	To	Type	Number					
Max.	Range	Att. Limits										
								0				
								1				
								2				
								3				
								4				
								5				
								6				
								7				
								8				
								9				
								0				
								1				
								2				
								3				
								4				
								5				
								6				
								7				
								8				
								9				
								0				





ANCHOR  
QEA

## Vane Shear Log Form

Project:

Location:

Technician:

Date: \_\_\_\_\_

<u>Vane Diameter</u>	<u>Vane constant (<math>\alpha</math>)</u>
16mm (0.63")	2
20mm (0.78")	1
25.4mm (1")	0.5
65mm (2.56")	0.029

$$S_U = \alpha \times \text{Scale}$$

Horizontal Datum:

[illegible]

Note - 1 kPa = 20.89 psf

# Dynamic Cone Penetrometer Field Form




<b>Location ID</b>			<b>Project Name</b>					
<b>Lat/Northing (Y)</b>			<b>Project Number</b>					
<b>Lon/Easting (X)</b>			<b>Date</b>					
<b>Horizontal Datum</b>			<b>Field Staff</b>					
<b>Vertical Elevation</b>								
<b>Vertical Datum</b>			<b>Depth to Water</b>					
<b>Depth</b>		<b>Reading</b>	<b>Depth</b>		<b>Reading</b>	<b>Depth</b>		<b>Reading</b>
<b>cm</b>	<b>ft</b>	<b>blows</b>	<b>cm</b>	<b>ft</b>	<b>blows</b>	<b>cm</b>	<b>ft</b>	<b>Blows</b>
10			190			370		
20			200			380		
30	1		210	7		390	13	
40			220			400		
50			230			410		
60	2		240	8		420	14	
70			250			430		
80			260			440		
90	3		270	9		450	15	
100			280			460		
110			290			470		
120	4		300	10		480	16	
130			310			490		
140			320			500		
150	5		330	11		510	17	
160			340			520		
170			350			530		
180	6		360	12		540	18	

Notes:

## D-3 Survey Field Forms

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Shoreline Visual Inspection Field Form			
<b>Project Name</b>		<b>Field Personnel</b>	
<b>Project Number</b>		<b>Page</b>	of
<b>Date</b>		<b>Time</b>	
<b>General Feature Description</b>			
<b>GPS Location</b>		<b>Location I.D.</b>	

	Description	Water Depth	Feature Height Above Water
Location 1			
Location 2			
Location 3			
Location 4			
Location 5			
Location 6			

Bank Condition	Good    Fair    Poor	Sloped    Vertical
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Visible Substrate Type	Riprap   Gravel   Sand   Silt/Clay   Debris   Vegetation   Other_____						
Notes							
<b>Photograph Log</b>	<b>Description</b>	<b>GPS Location</b>					

## FACILITIES CONDITION ASSESSMENT REPORT

### Sediment Cleanup of Upper Reach of Lower Duwamish Waterway

Facility Name:

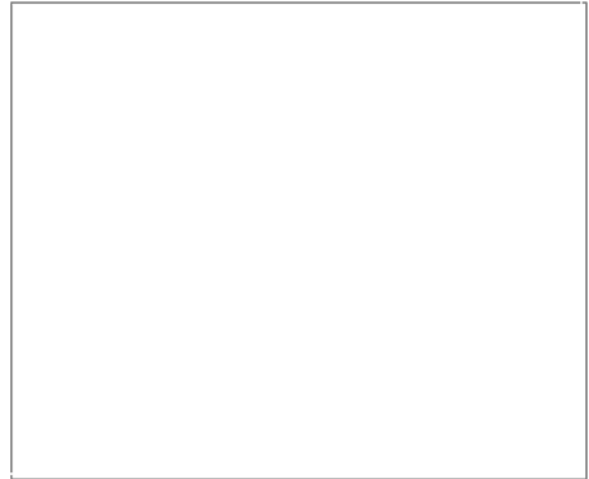
Facility Location:

Asset Type:

Use:

Inspection Date:

Inspected By:



#### General Conditions, Evaluations and Recommendations:

##### Example Heading

- Item description
  - Recommendation:
- Item description (photo #-#)

##### Example Heading

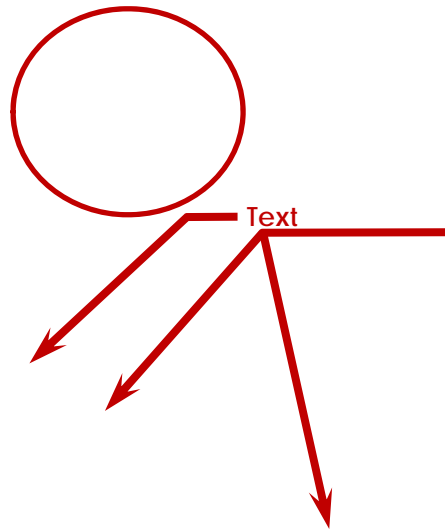
- Item description (photo #-#)
- Item description (photo #-#)

#### Compiled List of Deficiencies:

**PHOTOGRAPHS**

Photo 1

Photo 2





## **PHOTOGRAPHS**

Photo 3

Photo 4

## PHOTOGRAPHS

Photo 5

Photo 6

# WOOD MATERIAL VISUAL INSPECTION CHECKLIST

1. ENVIRONMENTAL CONDITION	1A – Exposure		1B – Soils (Foundation Conditions)	
		Environment (Marine, Freshwater, Industrial, etc.)		Expansive soil
		Freezing and thawing		Compressive soil (settlement)
		Wetting and drying		Evidence of pumping
		Drying under dry atmosphere		Scour
		Chemical corrosion and attack (Sulfates, Acids, Bases, Chloride, Gases)		
		Abrasion, erosion, impact		
		Heat from adjacent sources		

2. DISTRESS INDICATORS		Cracking or breakage
		Rot and decay
		Surface deposits
		Termite or Pest Infestation (Borer)

3. PRESENT CONDITION OF STRUCTURE	3A - Overall Apparent Alignment of Structure							
		Settlement		Deflection		Expansion		Contraction
	3B – Surface Condition							
	General Condition	<u>Excellent</u>		New or near-new condition: no issues to report. No loss of cross section.				
		<u>Good</u>		Good condition: no reported issues or concerns. Less than 5% loss of cross section.				
		<u>Fair</u>		Average wear; not new but no issues to report. Between 5% - 20% cross section.				
		<u>Poor</u>		Worn from use: Between 20% - 50% loss of cross section.				
		<u>Critical</u>		Extremely worn or damaged: Between 50% - 80% loss of cross section.				
	Finished surfaces							
	Cracking							
	Loss of Material							
	Missing or broken member							
	Fasteners: Corrosion							
	Soft timber and decay							
	Abrasion							
	Previous Repair							
	Surface Coatings, Protective Systems							
	Debris Buildup							
	Structural Defects							
	Moss							

# STEEL MATERIAL VISUAL INSPECTION CHECKLIST

1. ENVIRONMENTAL CONDITION	1A – Exposure		1B – Soils (Foundation Conditions)	
		Environment (Marine, Freshwater, Industrial, etc.)		Expansive soil
		Freezing and thawing		Compressive soil (settlement)
		Wetting and drying		Evidence of pumping
		Drying under dry atmosphere		Scour
		Chemical corrosion and attack (Sulfates, Acids, Bases, Chloride, Gases)		
		Abrasion, impact		
		Heat from adjacent sources		

2. DISTRESS INDICATORS		Member cracking or breakage
		Staining, corrosion
		Surface deposits
		Weld cracking or breakage

3. PRESENT CONDITION OF STRUCTURE	3A - Overall Apparent Alignment of Structure			
		Settlement		Deflection
	3B – Surface Condition			
	General Condition	<u>Excellent</u>		New or near-new condition: no issues to report. No loss of cross section.
		<u>Good</u>		Good condition: no reported issues or concerns. Less than 5% loss of cross section.
		<u>Fair</u>		Average wear; not new but no issues to report. Between 5% - 20% cross section.
		<u>Poor</u>		Worn from use: Between 20% - 50% loss of cross section.
		<u>Critical</u>		Extremely worn or damaged: Between 50% - 80% loss of cross section.
	Finished surfaces			
	Cracking			
	Rust and scale			
	Loss of Material			
	Missing or broken member			
	Stains			
	Corrosion			
	Abrasion			
	Previous Repair			
	Surface Coatings			
	Debris Buildup			
	Structural Defects			
	Moss			

# CONCRETE MATERIAL VISUAL INSPECTION CHECKLIST

1. ENVIRONMENTAL CONDITION	1A – Exposure		1B – Drainage		1C – Soils (Foundation Conditions)	
		Environment (Marine, Freshwater, Industrial, etc.)		Flashing		Expansive soil
		Freezing and thawing		Joint sealants		Compressive soil (settlement)
		Wetting and drying		Weepholes		Evidence of pumping
		Drying under dry atmosphere		Contour		Scour
		Chemical corrosion and attack (Sulfates, Acids, Bases, Chloride, Gases)		Elevation of drains		
		Abrasion, erosion, cavitation, impact				
		Heat from adjacent sources				

2. DISTRESS INDICATORS		Cracking or Breakage
		Staining
		Surface deposits and exudations
		Leaking

3. PRESENT CONDITION OF STRUCTURE	3A - Overall Apparent Alignment of Structure					
		Settlement		Deflection		Expansion
						Contraction
	3B – Surface Condition					
	General Condition	<u>Excellent</u>		New or near-new condition: no issues to report. No loss of cross section.		
		<u>Good</u>		Good condition: no reported issues or concerns. Less than 5% loss of cross section.		
		<u>Fair</u>		Average wear; not new but no issues to report. Between 5% - 20% cross section.		
		<u>Poor</u>		Worn from use: Between 20% - 50% loss of cross section.		
		<u>Critical</u>		Extremely worn or damaged: Between 50% - 80% loss of cross section.		
	Formed and finished surfaces					
	Cracking					
	Scaling					
	Spalls, pop outs, and delamination					
	Stains, Efflorescence					
	Exposed Reinforcement: Corrosion					
	Curling and warping					
	Erosion					
	Previous Patching or Other Repair:					
	Surface Coatings, Protective Systems, Linings, Toppings					
	Penetrating Sealers					
	Signs of Past Overflow on Rungs and Walls					
	Debris Buildup					
	Exposed Aggregate					
	Leaks through Walls					
	Structural Defects					
	Moss					